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1	136	wright-gr\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/22 11:31
2	13	wright-gr\$.in. and matrix	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/22 11:34
3	1	6243622.pn.	EPO; JPO; DERWENT	2004/07/22 11:35
4	1	62043622.pn.	EPO; JPO; DERWENT	2004/07/22 11:37
5	44	katagishi-t\$.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2004/07/22 12:00

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 62-043622

(43)Date of publication of application : 25.02.1987

(51)Int.Cl. G02F 1/133
G02F 1/133
G09G 3/20
G09G 3/36

(21)Application number : 60-183375

(71)Applicant : SANYO ELECTRIC CO LTD

(22)Date of filing : 20.08.1985

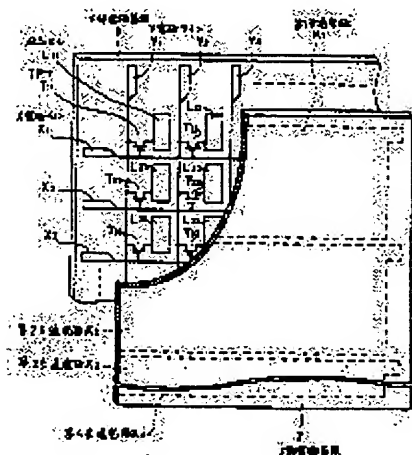
(72)Inventor : KATAGISHI TATSUO

(54) LIQUID CRYSTAL DISPLAY DEVICE

(57)Abstract:

PURPOSE: To apply video signals to cells to cells positioned at an upper and a lower end part for different periods and to uniform the brightness of each cell by inverting the voltage level of the video signal in each field period on the basis of the voltage of divided common electrodes and applying the signal to each cell.

CONSTITUTION: A liquid crystal display device is provided with plural Y electrode lines Y1, Y2... as signal electrodes of a lower electrode substrate 1 and plural X electrode lines X1, X2... as scanning electrodes crossing them at right angles, and FETs T11, T12... are connected to their intersection parts to constitute a matrix circuit. Further, the 1st W the 4th common electrodes K1WK4 which are divided into plural parts are arranged on an upper electrode substrate 2 arranged corresponding to the substrate 1. Liquid crystal cells L1, L12... are arranged between the FETs T1, T12... on the substrate 1 and the common electrodes K1WK4 on the substrate 2. Then, the voltage of the video signal is inverted in every field period on the basis of the voltage of the divided common electrodes K1WK4 and applied to the respective cells L11, L12... to uniform the brightness of the cells L11WL12....



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application]

converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

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